

Docket No. PUR-020  
Serial No. 10/735,352

PATENT APPLICATION

**CLAIM LISTING**

The following is a complete listing of the claims in this application.

Claim 1. (Cancelled).

1           2. (Previously Presented) The method of making a catheter according to claim  
2           28, further comprising the step of anchoring the group of filaments at or near a proximal  
3           end of the core member before winding the group of filaments onto the core member.

1           3. (Previously Presented) The method of making a catheter according to claim 2,  
2           wherein the group of filaments is wound onto the core member continuously from the  
3           proximal end of the core member to a distal end thereof and then back to the proximal  
4           end.

Claim 4. (Cancelled).

1           5. (Previously Presented) The method of making a catheter according to claim  
2           28, wherein the core member is a mandrel on which the catheter is formed.

1           6. (Previously Presented) The method of making a catheter according to claim  
2           28, wherein the core member is a substrate that forms an inner lining of the catheter.

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Claims 7 to 23. (Cancelled).

1           24. (Previously Presented) The method of making a catheter according to claim  
2           28, wherein said group of filaments are wound with a variable pitch such that a filament  
3           group spacing at a distal end of the core member is narrower than a filament group  
4           spacing at a proximal end of the core member.

Claims 25 to 27. (Cancelled).

1           28. (Previously Presented) A method of making a catheter, comprising the steps  
2           of:  
3           winding a filament onto a core member while rotating the core member relative to  
4           a filament source and passing the filament source in a first direction of axial movement  
5           relative to the core member; and  
6           reversing a direction of axial movement of the filament source while continuing to  
7           wind the filament onto the core member, whereby the filament is continuously wound  
8           onto the core member to form a first fibrous layer as the filament source is moved relative  
9           to the core member from a first axial position to a second axial position and then back to  
10          the first axial position;  
11          wherein said step of winding a filament comprises winding a group of filaments  
12          simultaneously; and

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13 further comprising the step of providing a guide assembly having a filament  
14 engaging surface, and arranging said guide assembly such that the filament engaging  
15 surface lies in a plane which is generally perpendicular to a longitudinal axis of the core  
16 member, whereby the guide assembly causes the filaments within said group of filaments  
17 to be positioned side-by-side and packed tightly against one another as the group of  
18 filaments are wound onto the core member.

1 29. (Original) The method of making a catheter according to claim 28, further  
2 comprising the step of varying a rotation speed of the core member or a translation speed  
3 of the filament source along the core member to vary a pitch of the group of filaments  
4 being wound onto the core member.

Claim 30. (Cancelled).

1 31. (Previously Presented) The method of making a catheter according to claim  
2 36, further comprising the step of varying a rotation speed of the core member or a  
3 translation speed of the source of filaments along the core member to vary a pitch of the  
4 group of filaments being wound onto the core member.

1 32. (Previously Presented) The method of making a catheter according to claim  
2 36, wherein said group of filaments are wound with a variable pitch such that a filament

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- 3 group spacing at a distal end of the core member is narrower than a filament group  
4 spacing at a proximal end of the core member.

Claims 33 to 35. (Cancelled).

- 1 36. (Previously Presented) A method of making a catheter, comprising the step  
2 of winding a group of filaments simultaneously onto a core member while rotating the  
3 core member relative to a source of said filaments and passing the source of filaments in a  
4 first direction of axial movement relative to the core member;  
5 further comprising the step of providing a guide assembly having a filament  
6 engaging surface, and arranging said guide assembly such that the filament engaging  
7 surface lies in a plane which is generally perpendicular to a longitudinal axis of the core  
8 member, whereby the guide assembly causes the filaments within said group of filaments  
9 to be positioned side-by-side and packed tightly against one another as the group of  
10 filaments are wound onto the core member.

- 1 37. (Previously Presented) The method of making a catheter according to claim  
2 36, further comprising the step of reversing a direction of axial movement of the source  
3 of filaments relative to the core member while continuing to wind the group of filaments  
4 onto the core member, whereby the filaments are continuously wound onto the core  
5 member as the source of filaments is moved relative to the core member from a first axial

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6 position to a second axial position and then back to the first axial position.

Claims 38 to 49. (Cancelled).

1 50. (Previously Presented) A method of making a catheter, comprising the steps  
2 of:

3 anchoring a group of filaments to a core member at a proximal end of the catheter;  
4 winding the group of filaments simultaneously onto the core member while  
5 rotating the core member relative to a filament source and passing the filament source in a  
6 first direction of axial movement relative to the core member toward a distal end of the  
7 catheter; and

8 reversing a direction of axial movement of the filament source while continuing to  
9 wind the group of filaments simultaneously onto the core member, whereby the group of  
10 filaments are continuously wound onto the core member to form a fibrous layer as the  
11 filament source is moved relative to the core member from the proximal end to the distal  
12 end and then back to the proximal end.

1 51. (Previously Presented) The method of making a catheter according to claim  
2 50, further comprising the step of passing the group of filaments through a guide  
3 assembly to orient the group of filaments into a plane which is generally perpendicular to  
4 a longitudinal axis of the core member, and causing the filaments to be naturally

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- 5 reoriented and packed tightly against one another as the group of filaments are wound  
6 onto the core member.